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(56) Documents Cited

GB 2246438 A GB 2231961 A GB 2027540 A

(58) Field of Search

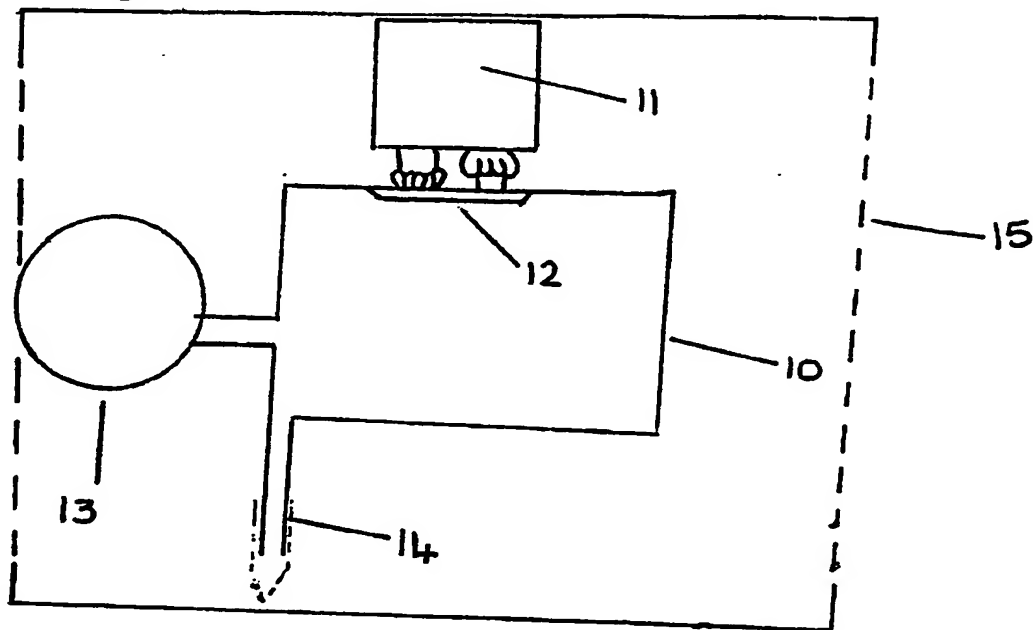
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(54) Water overflow detector/alarm

(57) A water overflow detector/alarm, has a water tight body 15 which houses a ball wire 10 connecting in series a battery holder 12 to which a battery 11 is connected, an audible alarm 13 and a probe 14. The probe consists of two lengths of wire, the length of the wire defining the height or depth of the water. When the probe is in contact with water or another conductive liquid, the alarm sounds. A heat reacting strip may be attached to the end of the probe. In a bath, the housing 15 may be in the shape of a duck.

Fig 1



GB 2 277 592 A

Fig 1

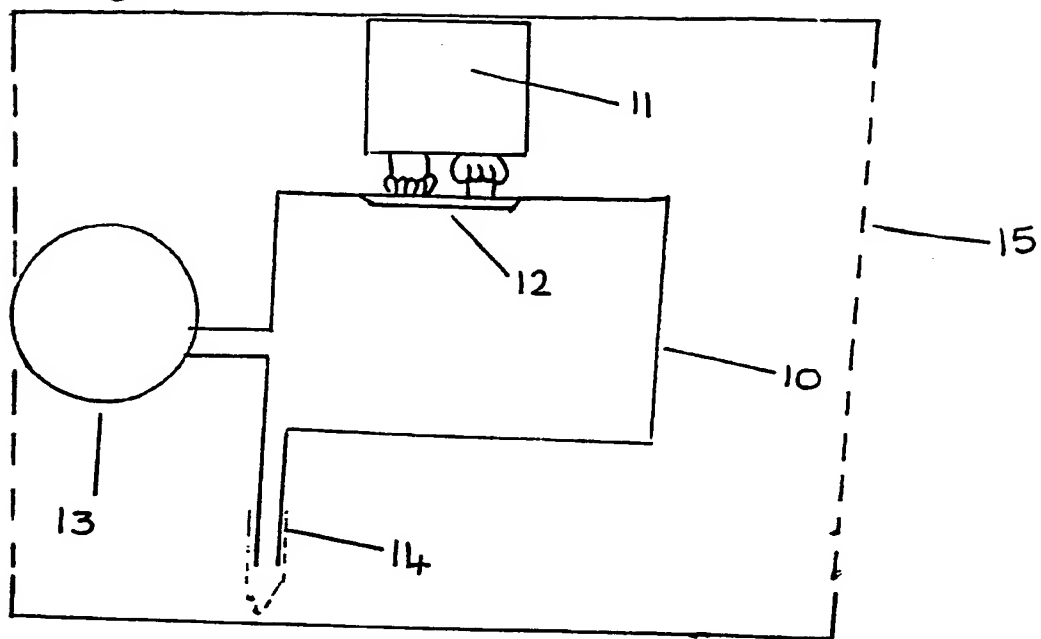
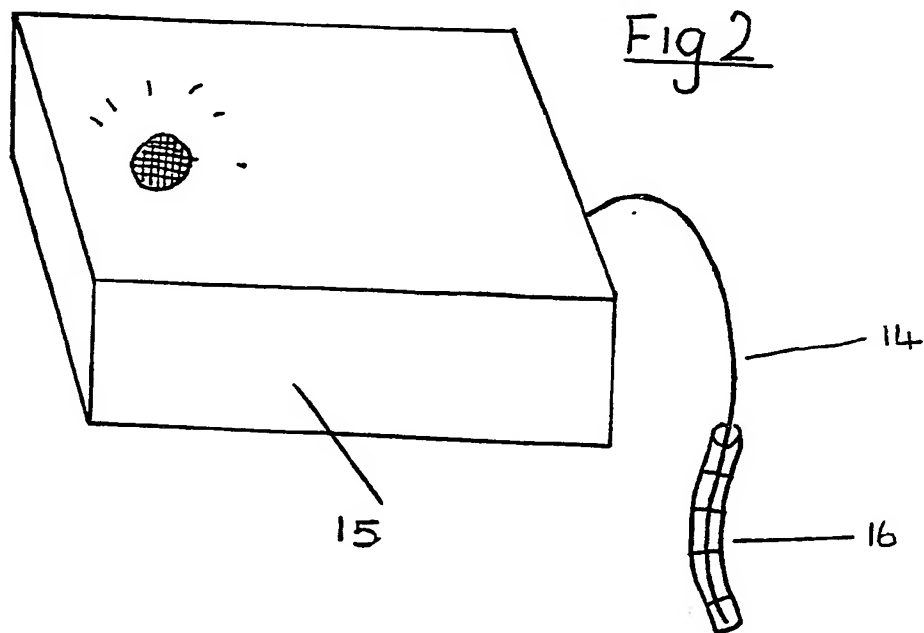


Fig 2



- 1 -

## OVERFLOW DETECTOR/ALARM

This invention is a water overflow detector/alarm.

Used in the right application, this water detector device can help to detect overflowing water or indeed any conductive liquid. It is proposed to be housed in an ornament or gimmick in all households with an essential function to give a warning to the user that the bath water has reached the desired level by means of a signal. This device can be applied in any situation giving a warning signal to any failing water valves e.g. household water tanks and toilet stopcocks.

The device could prevent overflow damage, hot or cold water wastage and if used as a gimmick can encourage young children to use the bath. A good example of a gimmick is if the the detector is housed in a duck and on running the bath, when the water reaches the desired level (i.e. the water comes in to contact with the probe), the duck lets off a "quack quack".

According to the present invention there is provided a water overflow detector/alarm comprising a suitable buzzer or audible warning component, a battery, a battery connector and a probe consisting of two lengths of insulated wire. The height of the probe may be adjusted to desired level. All housed in a water tight container.

A heat reacting strip may be placed on the detector to show the temperature reading. The detector may be fitted by means of suckers, velcro, magnets or screws.

A specific embodiment of the invention will now be described by way of example with reference to the accompanying drawings in which:-

Figure 1 shows a simple schematic of the wiring circuit

Figure 2 demonstrates the detector complete in its housing and the probe with the heat reacting strip.

Figure 1 shows the contents of the water overflow detector/alarm body 15; the bell wire 10 connecting in series to the battery holder 12 of which the battery 11 is pushed on, the audible alarm 13 and the probe 14.

Figure 2 shows the water overflow detector/alarm externally where at the end of the probe 14 you will find a heat reacting strip 16.

- 2 -

To obtain the desired water level move the device body so that the probe (end of wire) is at the height of water you normally have, so once in contact with the water the alarm will sound. To turn off signal simply remove the probe from the water.

CLAIMS

1. A water overflow detector/alarm comprising of an electrical circuit housed in a water or other conductive liquids tight container where protrudes an adjustable length of insulated wire which has a probe at its other end to determine the water level of the bath (or other), giving an audible warning signal.
2. A water overflow detector/alarm as claimed in claim one, wherein the device can be placed at the side of the bath and used to detect the water level by means of adjusting the height of the probe.
3. A water overflow detector/alarm as claimed in claim one where in the main body is housed in a gimmick or ornament.
4. A water overflow detector/alarm as claimed in claims one, two and three wherein the probes will have a temperature reading by means of a heat reacting strip.
5. A water overflow detector/alarm as claimed in claims one, two, three and four wherein the main body in it's application can be fitted by means of suckers, velcro, magnets or screws.

**Patents Act 1977**  
**Examiner's report to the Comptroller under**  
**Section 17 (The Search Report)**

- 4 -

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**Relevant Technical fields**

(i) UK CI (Edition L) G1H  
(ii) Int CI (Edition 5) G01F

**Search Examiner**

M C MONK

**Databases (see over)**

(i) UK Patent Office

(ii)

**Date of Search**

17 JUNE 1993

Documents considered relevant following a search in respect of claims

ALL

Category (see over)	Identity of document and relevant passages	Relevant to claim(s)
X	GB 2246438 A (FISHER) whole document	1-3,5
X	GB 2231961 A (WEN-BING PENG) whole document	1-3,5
X	GB 2027540 A (SWEE-CHIN TEOH) whole document	1-3,5

SF2(p)

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**X:** Document indicating lack of novelty or of inventive step.

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**P:** Document published on or after the declared priority date but before the filing date of the present application.

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